Ehsan Al-Agtash

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EDUCATION

Bachelor Of Science in Mechanical Engineering December 2022

San Jose State University, San Jose, CA, GPA 3.2 on the Dean's list

Relevant Coursework: Mechatronics, Thermodynamics, Robotics, Dynamic System Vibration Control, Manufacturing process, Fluid Mechanics

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SKILLS

Software: SolidWorks, Circuit Python, Visual Studio Code, Microsoft Office Suite, ArduinoIDE, GD&T, Prototyping, Raspberry PI 4

Programming Languages: C++, Python, MATLAB, LabVIEW, Simulink, Java, Linux

Test Equipment: Pneumatic pressure and flow, high/low-frequency AC, DC, shop tools, Instron fatigue, and tensile

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EXPERIENCE

Johnson & Johnson, Santa Clara, CA — Clinical Account Specialist 1 Jan 2023 - Present

- Engaged in dialogue with multiple internal and external stakeholders and partners, and formulated a solution based on dialogue and input gained during training.
- Understood and adapted to the dynamics of an EP lab, including physicians, nurses, and techs.
- Problem solved during stressful interactions and maintained composure appropriately and responded to requests in a high-stress environment.

Syminar Inc, Stanford, CA — Hardware Engineer intern Sep 2022 - Nov 2022

- Scoped and researched tools to live-stream video feed to a static IP address using Rasp Pi.
- Implemented multithreading to OpenCV to get and publish live video feed to a static IP address using Python to increase frames per second.
- Familiarized with ARM/Intel processors alongside understanding PTP protocol

Supira Medical, Los Gatos, CA — R&D intern May 2022 - Aug 2022

- Designed prototyping fixtures for operations team increasing manufacturing reliability by 20%
- 3D modeled impeller trimming fixture with high precision and tight tolerance using SolidWorks and released 2D drawings using GD&T
- Collaborated and communicated with operators to test and develop a 360-degree UV curing station to help with consistent glue bonding throughout manufacturing
- Designed an electromechanical Arduino-powered 2-axis automated coiler to drive catheter for lamination, increased manufacturing by 13%

PROJECT EXPERIENCE

Drag Reduction System (DRS), SJSU — Team member Jan 2021 - May 2022

- Constructed an analysis of multiple actuators (electric, hydraulic, pneumatic) to energize the DRS system while following SAE rules, Team goals while minimizing the extra weight.
- Evaluated different actuation methods and picked the most suitable actuator to energize the DRS